

404614\_1.TXT  
SEQUENCE LISTING

<110> Sirna Therapeutics, Inc.  
McSwiggen, James  
Chowrira, Bharat  
Haeberli, Peter

<120> RNA Interference Mediated Inhibition Of NOGO And NOGO Receptor  
Gene Expression Using Short Interfering Nucleic Acid (siNA)

<130> 400/232 (MBHB00-878-J)

<140> PCT/US04/026930  
<141> 2004-08-20

<150> US 10/430,882  
<151> 2003-05-06

<150> PCT/US02/10512  
<151> 2002-04-03

<150> US 09/827,395  
<151> 2001-04-05

<150> US 09/780,533  
<151> 2001-02-09

<150> PCT/US01/04273  
<151> 2001-02-09

<150> US 60/181,797  
<151> 2000-02-11

<150> PCT/US04/16390  
<151> 2004-05-24

<150> US 10/826,966  
<151> 2004-04-16

<150> US 10/757,803  
<151> 2004-01-14

<150> US 10/720,448  
<151> 2003-11-24

<150> US 10/693,059  
<151> 2003-10-23

<150> US 10/444,853  
<151> 2003-05-23

<150> PCT/US03/05346  
<151> 2003-02-20

<150> PCT/US03/05028  
<151> 2003-02-20

<150> US 60/358,580  
<151> 2002-02-20

<150> US 60/363,124  
<151> 2002-03-11

<150> US 60/386,782  
<151> 2002-06-06

<150> US 60/406,784  
<151> 2002-08-29

<150> US 60/408,378  
<151> 2002-09-05

<150> US 60/409,293  
<151> 2002-09-09

<150> US 60/440,129  
<151> 2003-01-15

<150> PCT/US04/13456  
<151> 2004-04-30

<150> US 10/780,447  
<151> 2004-02-13

<150> US 10/427,160  
<151> 2003-04-30

<150> PCT/US02/15876  
<151> 2002-05-17

<150> US 60/292,217  
<151> 2001-05-18

<150> US 60/362,016  
<151> 2002-03-06

<150> US 60/306,883  
<151> 2001-07-20

<150> US 60/311,865  
<151> 2001-08-13

<150> US 10/727,780  
<151> 2003-12-03

<150> US 60/543,480  
<151> 2004-02-10

<160> 324

<170> PatentIn version 3.3

<210> 1

<211> 19

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 1

cgaaacgacu uucaguccc

19

<210> 2

<211> 19

404614\_1.TXT

<212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
 <400> 2  
 ccgacgcgcc ccgccaac 19

<210> 3  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
 <400> 3  
 ccccuacgau gaagagggc 19

<210> 4  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
 <400> 4  
 cguccgcugg agggagccg 19

<210> 5  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
 <400> 5  
 ggcugcuggc augggugcu 19

<210> 6  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
 <400> 6  
 uguggcugca ggccuggca 19

<210> 7  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

404614\_1.TXT

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 7  
agguggcagc cccaugccc 19

<210> 8  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 8  
caggugccug cguaugcua 19

<210> 9  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 9  
acaaugagcc caaggugac 19

<210> 10  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 10  
cgacaagcug cccccagca 19

<210> 11  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 11  
agggccugca ggcugugcc 19

<210> 12  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

404614\_1.TXT

<400> 12  
ccgugggcau cccugcugc 19

<210> 13  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 13  
ccagccagcg caucuuccu 19

<210> 14  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 14  
ugcacggcaa ccgcaucuc 19

<210> 15  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 15  
cgcaugugcc agcugccag 19

<210> 16  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 16  
gcuuccgugc cugccgcaa 19

<210> 17  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 17  
accucaccau ccuguggcu 19

404614\_1.TXT

```

<210> 18
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 18
ugcacucgaa ugugcuggc 19

<210> 19
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 19
cccgaauuga ugcggcugc 19

<210> 20
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 20
ccuucacugg ccuggcccu 19

<210> 21
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 21
uccuggagca gcuggaccu 19

<210> 22
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 22
ucagcgauaa ugacagcu 19

<210> 23
<211> 19

```

404614\_1.TXT

<212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 23  
 uccggucugu ggacccugc 19

<210> 24  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 24  
 ccacauucca cggccuggg 19

<210> 25  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 25  
 gccgccuaca cacgcugca 19

<210> 26  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 26  
 accuggaccg cugcggccu 19

<210> 27  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 27  
 ugcaggagcu gggcccggg 19

<210> 28  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

404614\_1.TXT

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 28  
ggcuguuccg cggccuggc 19

<210> 29  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 29  
cugcccugca guaccucua 19

<210> 30  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 30  
accugcagga caacgcgcu 19

<210> 31  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 31  
ugcaggcacu gccugauga 19

<210> 32  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 32  
acaccuuccg cgaccuggg 19

<210> 33  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region



<400> 33  
 gcaaccucac acaccucuu 19

<210> 34  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 34  
 uccugcacgg caaccgcau 19

<210> 35  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 35  
 ucuccagcgu gcccgagcg 19

<210> 36  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 36  
 gcgccuuccg ugggcugca 19

<210> 37  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 37  
 acagccucga ccgucuccu 19

<210> 38  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 38  
 uacugcacca gaaccgcgu 19

404614\_1.TXT

<210> 39  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 39  
 uggcccaugu gcacccgca 19  
  
 <210> 40  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 40  
 augccuuccg ugaccuugg 19  
  
 <210> 41  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 41  
 gccgccucau gacacucua 19  
  
 <210> 42  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 42  
 aucuguuugc caacaauca 19  
  
 <210> 43  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 43  
 uaucagcgcu gcccacuga 19  
  
 <210> 44  
 <211> 19

404614\_1.TXT

<212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 44  
 aggccuggc cccccugcg 19

<210> 45  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 45  
 gugcccugca guaccugag 19

<210> 46  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 46  
 ggcucaacga caaccccug 19

<210> 47  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 47  
 ggguguguga cugccgggc 19

<210> 48  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 48  
 cacgcccacu cugggccug 19

<210> 49  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

404614\_1.TXT

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 49  
ggcugcagaa guuccgcgg 19

<210> 50  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 50  
gcuccuccuc cgaggugcc 19

<210> 51  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 51  
ccugcagccu cccgcaacg 19

<210> 52  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 52  
gccuggcugg ccgugaccu 19

<210> 53  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 53  
ucaaacgccu agcugccaa 19

<210> 54  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 54  
 augaccugca gggcugcgc 19

<210> 55  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 55  
 cuguggccac cggcccuua 19

<210> 56  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 56  
 accaucccau cuggaccgg 19

<210> 57  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 57  
 gcagggccac cgaugagga 19

<210> 58  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 58  
 agccgcuggg gcuucccaa 19

<210> 59  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 59  
 agugcugcca gccagaugc 19

404614\_1.TXT

<210> 60  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 60  
 ccgcugacaa ggccucagu 19  
  
 <210> 61  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 61  
 uacuggagcc uggaagacc 19  
  
 <210> 62  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 62  
 cagcuucggc aggcaaugc 19  
  
 <210> 63  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 63  
 cgcugaaggg acgcgugcc 19  
  
 <210> 64  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region  
  
 <400> 64  
 cgcccgguga cagcccgcc 19  
  
 <210> 65  
 <211> 19

404614\_1.TXT

```

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 65
cgggcaacgg cucuggccc
19

<210> 66
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 66
cacggcacau caaugacuc
19

<210> 67
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 67
cacccuuugg gacucugcc
19

<210> 68
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 68
cuggcucugc ugagccccc
19

<210> 69
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 69
cgcucacugc agugcggcc
19

<210> 70
<211> 19
<212> RNA
<213> Artificial Sequence

```

404614\_1.TXT

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 70  
ccgagggcuc cgagccacc 19

<210> 71  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 71  
cagggguccc caccucggg 19

<210> 72  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 72  
gcccucgccg gaggccagg 19

<210> 73  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 73  
gcuguucacg caagaaccg 19

<210> 74  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 74  
gcacccgcag ccacugccg 19

<210> 75  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region



<400> 75  
 gucugggccca ggcaggcag 19

<210> 76  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 76  
 gcgggggugg cgggacugg 19

<210> 77  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 77  
 gugacucaga aggcucagg 19

<210> 78  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 78  
 gugcccuacc cagccucac 19

<210> 79  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 79  
 ccugcagccu cccccccu 19

<210> 80  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 80  
 ugggccuggc gcuggugcu 19

404614\_1.TXT

```

<210> 81
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 81
uguggacagu gcuugggcc                                19

<210> 82
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 82
ccugcugacc cccagcgga                                19

<210> 83
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 83
acacaagagc gugcucagc                                19

<210> 84
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 84
cagccaggug uguguacau                                19

<210> 85
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 85
uacggggucu cucuccacg                                19

<210> 86
<211> 19

```

404614\_1.TXT

<212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 86  
 gccgccaagc cagccgggc 19

<210> 87  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 87  
 cggccgaccc guggggcag 19

<210> 88  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 88  
 ggccaggcca gguccuccc 19

<210> 89  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 89  
 cugauggacg ccugccgcc 19

<210> 90  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 90  
 ccgccacccc caucccac 19

<210> 91  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

404614\_1.TXT

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 91  
cccccaucaug uuuacaggg 19

<210> 92  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 92  
guucggcggc agcguuugu 19

<210> 93  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 93  
uuccagaacg ccgccuccc 19

<210> 94  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 94  
cacccagauc gcgguaau 19

<210> 95  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 95  
uagagauaug cauuuuau 19

<210> 96  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 96  
 uuuacuugug uaaaaauau 19

<210> 97  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 97  
 ucggacgacg uggaauaaa 19

<210> 98  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 98  
 agagcucuuu ucuuaaaaa 19

<210> 99  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 99  
 uucuuaaaaa aaaaaaaaaa 19

<210> 100  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 100  
 gggacugaaa gucguuucg 19

<210> 101  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 101  
 guugggcggg gcgcgucgg 19

404614\_1.TXT

<210> 102  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 102  
 gccucucuca ucguagggg 19

<210> 103  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 103  
 cggcucccuc cagcggacg 19

<210> 104  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 104  
 agcacccaug ccagcagcc 19

<210> 105  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 105  
 ugccaggccu gcagccaca 19

<210> 106  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 106  
 gggcaugggg cugccaccu 19

<210> 107  
 <211> 19

404614\_1.TXT

<212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 107  
 uagcauacgc aggcaccug 19

<210> 108  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 108  
 gucacauugg gcucauugu 19

<210> 109  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 109  
 ugcugggggc agcuugucg 19

<210> 110  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 110  
 ggcacagccu gcaggcccu 19

<210> 111  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 111  
 gcagcagggg ugcccacgg 19

<210> 112  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

404614\_1.TXT

```

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 112
aggaagaucg gcuggcugg                                     19

<210> 113
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 113
gagaugcggu ugccgugca                                     19

<210> 114
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 114
cuggcagcug gcacaugcg                                     19

<210> 115
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 115
uugcggcagg cacggaagc                                     19

<210> 116
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 116
agccacagga uggugaggu                                     19

<210> 117
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

```



<400> 117  
gccagcacau ucgagugca 19

<210> 118  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 118  
gcagccgcau caauucggg 19

<210> 119  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 119  
agggccaggc cagugaagg 19

<210> 120  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 120  
agguccagcu gcuccagga 19

<210> 121  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 121  
agcugugcau uaucgcuga 19

<210> 122  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 122  
gcagggucca cagaccgga 19

404614\_1.TXT

<210> 123  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 123  
 cccaggccgu ggaaugugg 19

<210> 124  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 124  
 ugcagcgugu guaggcggc 19

<210> 125  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 125  
 aggccgcagc gguccaggu 19

<210> 126  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 126  
 cccgggccca gcuccugca 19

<210> 127  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 127  
 gccaggccgc ggaacagcc 19

<210> 128  
 <211> 19

404614\_1.TXT

```

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 128
uagagguacu gcagggcag
19

<210> 129
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 129
agcgcuugu ccugcaggu
19

<210> 130
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 130
ucaucaggca gugccugca
19

<210> 131
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 131
cccaggucgc ggaaggugu
19

<210> 132
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 132
aagaggugug ugagguugc
19

<210> 133
<211> 19
<212> RNA
<213> Artificial Sequence

```

404614\_1.TXT

```

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 133
augcgguugc cgugcagga 19

<210> 134
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 134
cgcucgggca cgucggaga 19

<210> 135
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 135
ugcagccac ggaaggcgc 19

<210> 136
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 136
aggagacggu cgaggcugu 19

<210> 137
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 137
acgcgguucu ggugcagua 19

<210> 138
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

```

<400> 138  
ugcgggugca caugggccca 19

<210> 139  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 139  
ccaaggucac ggaaggcau 19

<210> 140  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 140  
uagaguguca ugaggcggc 19

<210> 141  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 141  
agauuguugg caaacagau 19

<210> 142  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 142  
ucagugggca ggcugaua 19

<210> 143  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 143  
cgcagggggg ccagggccu 19

404614\_1.TXT

```

<210> 144
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 144
cucagguacu gcagggcac 19

<210> 145
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 145
cagggguugu cguugagcc 19

<210> 146
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 146
gcccggcagu cacacaccc 19

<210> 147
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 147
caggcccaga gugggcgug 19

<210> 148
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 148
ccgcggaacu ucugcagcc 19

<210> 149
<211> 19

```

404614\_1.TXT

<212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 149  
 ggcaccucgg aggaggagc 19

<210> 150  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 150  
 cguugcgga ggcugcagg 19

<210> 151  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 151  
 aggucacggc cagccaggc 19

<210> 152  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 152  
 uggcagcua ggcguuuga 19

<210> 153  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <400> 153  
 gcgcagcccu gcaggucan 19

<210> 154  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

404614\_1.TXT

```

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 154
uaagggccgg uggccacag 19

<210> 155
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 155
ccgguccaga ugggauggu 19

<210> 156
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 156
uccucaucgg uggcccugc 19

<210> 157
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 157
uugggaagcc ccagcggu 19

<210> 158
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 158
gcaucuggcu ggcagcacu 19

<210> 159
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

```



<400> 159  
acugaggccu ugucagcgg 19

<210> 160  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 160  
ggucuuccag gcuccagua 19

<210> 161  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 161  
gc auugccug ccgaagcug 19

<210> 162  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 162  
ggcacgcguc ccuucagcg 19

<210> 163  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 163  
ggcgggcugu caccgggcg 19

<210> 164  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 164  
gggccagagc cguugcccg 19

404614\_1.TXT

<210> 165  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
  
 <400> 165  
 gagucauuga ugugccgug 19  
  
 <210> 166  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
  
 <400> 166  
 ggcagaguucc caaagggug 19  
  
 <210> 167  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
  
 <400> 167  
 ggggggcucag cagagccag 19  
  
 <210> 168  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
  
 <400> 168  
 ggccgcacug cagugagcg 19  
  
 <210> 169  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
  
 <400> 169  
 gguggcucgg agcccucgg 19  
  
 <210> 170  
 <211> 19

404614\_1.TXT

<212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 170  
 cccgaggugg ggaacccug 19

<210> 171  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 171  
 ccuggccucc ggcgagggc 19

<210> 172  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 172  
 cgguucuugc gugaacagc 19

<210> 173  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 173  
 cggcaguggc ugcgggugc 19

<210> 174  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 174  
 cugccugccu ggcccagac 19

<210> 175  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

404614\_1.TXT

```

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 175
ccagucccg cccccgc 19

<210> 176
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 176
ccugagccuu cugagucac 19

<210> 177
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 177
gugaggcugg guagggcac 19

<210> 178
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 178
agggggguga ggcugcagg 19

<210> 179
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<400> 179
agcaccagcg ccaggccca 19

<210> 180
<211> 19
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

```

# 404614\_1.TXT

<400> 180  
ggcccaagca cuguccaca 19

<210> 181  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 181  
uccgcugggg gucagcagg 19

<210> 182  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 182  
gcugagcacg cucuugugu 19

<210> 183  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 183  
auguacacac accuggcug 19

<210> 184  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 184  
cguggagaga gaccccgua 19

<210> 185  
<211> 19  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<400> 185  
gcccggcugg cuuggcggc 19

404614\_1.TXT

<210> 186  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
  
 <400> 186  
 cugcccccacg ggucggccg 19  
  
 <210> 187  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
  
 <400> 187  
 gggaggaccu ggccuggcc 19  
  
 <210> 188  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
  
 <400> 188  
 ggcggcaggc guccaucag 19  
  
 <210> 189  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
  
 <400> 189  
 guggagaugg ggguggcgg 19  
  
 <210> 190  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
  
 <400> 190  
 cccuguaaac augaugggg 19  
  
 <210> 191  
 <211> 19

404614\_1.TXT

<212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 191  
 acaaacgcug ccgccgaac 19

<210> 192  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 192  
 gggaggcggc guucuggaa 19

<210> 193  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 193  
 auauaccgcg aucugggug 19

<210> 194  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 194  
 aauaaaaugc auaucucua 19

<210> 195  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 195  
 auauuuuuac acaaguaaa 19

<210> 196  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

404614\_1.TXT

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 196  
 uuuaauccac gucguccga 19

<210> 197  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 197  
 uuuuuuagaa aagagcucu 19

<210> 198  
 <211> 19  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<400> 198  
 uuuuuuuuuu uuuuaagaa 19

<210> 199  
 <211> 23  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 199  
 cccugcagua ccucuaccug cag 23

<210> 200  
 <211> 23  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 200  
 uaccucuacc ugcaggacaa cgc 23

<210> 201  
 <211> 23  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Target Sequence/siNA sense region



404614\_1.TXT

<400> 201  
cgaccgucuc cuacugcacc aga 23

<210> 202  
<211> 23  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 202  
accgucuccu acugcaccag aac 23

<210> 203  
<211> 23  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 203  
uggccgccuc augacacucu auc 23

<210> 204  
<211> 23  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 204  
acuggagccu ggaagaccag cuu 23

<210> 205  
<211> 23  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 205  
uggugacuca gaaggcucag gug 23

<210> 206  
<211> 23  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Target Sequence/siNA sense region

<400> 206  
aucuccaccc caucauguuu aca 23

404614\_1.TXT

<210> 207  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 207  
 cugcaguacc ucuaccugcn n 21

<210> 208  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 208  
 ccucuaccug caggacaacn n 21

<210> 209  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 209  
 accgucuccu acugcaccan n 21

<210> 210  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

404614\_1.TXT

```

<220>
<221> misc_feature
<222> (20)..(21)
<223> n stands for thymidine

<400> 210
cgucuccuac ugcaccagan n                                21

<210> 211
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA sense region

<220>
<221> misc_feature
<222> (20)..(21)
<223> n stands for thymidine

<400> 211
gccgccuau gacacucuan n                                21

<210> 212
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA sense region

<220>
<221> misc_feature
<222> (20)..(21)
<223> n stands for thymidine

<400> 212
uggagccugg aagaccagcn n                                21

<210> 213
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA sense region

<220>
<221> misc_feature
<222> (20)..(21)
<223> n stands for thymidine

<400> 213
gugacucaga aggcucaggn n                                21

```

<210> 214  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 214  
 cuccacccca ucauguuuan n 21

<210> 215  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 215  
 gcagguagag guacugcagn n 21

<210> 216  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 216  
 guuguccugc agguagaggn n 21

<210> 217  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 217  
 uggugcagua ggagacggun n 21

<210> 218  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 218  
 ucuggucag uaggagacgn n 21

<210> 219  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 219  
 uagaguguca ugagcggn n 21

<210> 220  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 220  
 gcuggucuuc caggcuccan n 21

404614\_1.TXT

<210> 221  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 221  
 ccugagccuu cugagucacn n 21

<210> 222  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 222  
 uaaacaugau gggguggagn n 21

<210> 223  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moeity

<220>  
 <221> misc\_feature  
 <222> (1)..(2)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature

<222> (7)..(7)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (9)..(13)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (15)..(17)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 223  
 cugcaguacc ucuaccugcn n

21

<210> 224  
 <211> 21  
 <212> RNA  
 <213> Artificial sequence

<220>  
 <223> Description of Artificial sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(5)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (7)..(9)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature

<222> (16)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 224  
 ccucuaccug caggacaacn n

21

<210> 225  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (5)..(10)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (12)..(13)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (15)..(15)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (17)..(18)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature



<222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 225  
 accgucuccu acugcaccan n

21

<210> 226  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (3)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (10)..(11)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (15)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 226  
 cgucuccuac ugaccagan n

21

<210> 227  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (5)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (15)..(18)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 227  
 gccgccucau gacacucuan n

21

<210> 228  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (6)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (15)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 228  
 uggagccugg aagaccagcn n

21

<210> 229  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (5)..(7)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (14)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 229  
 gugacucaga aggcucaggn n

21

<210> 230  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(4)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (6)..(9)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (11)..(12)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (16)..(18)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3' attached terminal deoxyabasic moiety

<400> 230  
 cuccacccca ucauguuuan n

21

<210> 231  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (14)..(15)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (17)..(17)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 231  
 gcagguagag guacugcagn n

21

<210> 232  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (5)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 232  
 guuguccugc agguagaggn n

21

<210> 233  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature  
 <222> (9)..(9)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (16)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 233  
 uggucagua ggagacggun n

21

<210> 234  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 234  
 ucuggugcag uaggagacgn n

21

<210> 235  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (8)..(9)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (16)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 235



uagaguguca ugaggcggn n

21

<210> 236  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (6)..(11)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (15)..(18)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 236  
 gcuggucuuc caggcuccan n

21

<210> 237  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (7)..(12)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (16)..(17)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (19)..(19)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (20)..(20)

<223> Phosphorothioate 3'-Internucleotide Linkage

<220>

<221> misc\_feature

<222> (21)..(21)

<223> n stands for thymidine

<400> 237

ccugagccuu cugagucacn n

21

<210> 238

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA antisense region

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (5)..(5)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (7)..(7)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (10)..(10)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (15)..(15)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (20)..(20)

<223> Phosphorothioate 3'-Internucleotide Linkage

<220>

<221> misc\_feature

<222> (21)..(21)

<223> n stands for thymidine

<400> 238

uaaacaugau gggguggagn n

21

<210> 239

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3' attached terminal deoxyabasic moiety

<220>

<221> misc\_feature

<222> (1)..(2)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (3)..(3)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (4)..(4)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (5)..(6)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (7)..(7)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (8)..(8)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (9)..(13)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (14)..(14)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (15)..(17)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (18)..(18)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (19)..(19)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n stands for thymidine

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal deoxyabasic moiety

<400> 239

cugcaguacc ucuaccugcn n

21

<210> 240

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3 attached terminal deoxyabasic moiety

<220>

<221> misc\_feature

<222> (1)..(5)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (6)..(6)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (7)..(9)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (10)..(10)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (11)..(11)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (12)..(15)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (16)..(16)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (17)..(18)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (19)..(19)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n stands for thymidine

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal deoxyabasic moiety

<400> 240

ccucuaccug caggacaacn n

21

<210> 241

<211> 21

<212> RNA

<213> Artificial sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3 attached terminal deoxyabasic moiety

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (2)..(3)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (4)..(4)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (5)..(10)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (11)..(11)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (12)..(13)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (14)..(14)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (15)..(15)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (16)..(16)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (17)..(18)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (19)..(19)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n stands for thymidine

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal deoxyabasic moiety

<400> 241

accgucuccu acugcaccan n

21

<210> 242

<211> 21

<212> RNA

<213> Artificial sequence

<220>

<223> Description of Artificial sequence: siNA sense region

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> 5'-3 attached terminal deoxyabasic moiety

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (2)..(2)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (3)..(8)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (9)..(9)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (10)..(11)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (12)..(12)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (13)..(13)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (14)..(14)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (15)..(16)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (17)..(19)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (20)..(20)  
<223> n stands for thymidine

<220>

<221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 242  
 cgucuccuac ugcaccagan n

21

<210> 243  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (5)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (11)..(12)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> 2'-deoxy-2'-Fluoro

<220>



<221> misc\_feature  
 <222> (14)..(14)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (15)..(18)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 243  
 gccgccucau gacacucuan n

21

<210> 244  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (2)..(5)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (6)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (9)..(14)  
 <223> 2'-deoxy

<220>

<221> misc\_feature  
 <222> (15)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (17)..(18)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 244  
 uggagccugg aagaccagcn n

21

<210> 245  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (3)..(4)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (5)..(7)  
 <223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature  
 <222> (8)..(13)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (14)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (17)..(19)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 245  
 gugacucaga aggcucaggn n

21

<210> 246  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(4)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (6)..(9)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> 2'-deoxy

<220>

<221> misc\_feature  
 <222> (11)..(12)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (15)..(15)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (16)..(18)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 246  
 cuccaccca ucauguuuan n

21

<210> 247  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> 2'-deoxy-2'-Fluoro

<220>

```

<221> misc_feature
<222> (3)..(5)
<223> 2'-deoxy

<220>
<221> misc_feature
<222> (6)..(6)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (7)..(11)
<223> 2'-deoxy

<220>
<221> misc_feature
<222> (12)..(12)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (13)..(13)
<223> 2'-deoxy

<220>
<221> misc_feature
<222> (14)..(15)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (16)..(16)
<223> 2'-deoxy

<220>
<221> misc_feature
<222> (17)..(17)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (18)..(19)
<223> 2'-deoxy

<220>
<221> misc_feature
<222> (20)..(20)
<223> Phosphorothioate 3'-Internucleotide Linkage

<220>
<221> misc_feature
<222> (21)..(21)
<223> n stands for thymidine

<400> 247
gcagguagag guacugcagn n

<210> 248
<211> 21
<212> RNA
<213> Artificial Sequence

```

404614\_1.TXT

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (2)..(3)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (4)..(4)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (5)..(8)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (9)..(9)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (10)..(10)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (11)..(13)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (14)..(14)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (15)..(19)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (20)..(20)  
<223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
<221> misc\_feature  
<222> (21)..(21)  
<223> n stands for thymidine

<400> 248  
guuguccugc agguagaggn n

<210> 249  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (2)..(3)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (4)..(4)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (5)..(5)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (7)..(8)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (9)..(9)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (10)..(15)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (16)..(16)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (17)..(18)  
<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (19)..(19)  
<223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 249  
 uggugcagua ggagacggun n

21

<210> 250  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (9)..(10)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (12)..(17)  
 <223> 2'-deoxy



<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 250  
 ucuggugcag uaggagacgn n

21

<210> 251  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (2)..(5)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (8)..(9)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (12)..(15)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (16)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (17)..(18)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 251  
 uagaguguca ugaggcggn n

21

<210> 252  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (6)..(11)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (12)..(14)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (15)..(18)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 252  
 gcuggucuuc caggcuccan n

21

<210> 253  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(6)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (7)..(12)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (13)..(15)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (16)..(17)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 253  
 ccugagccuu cugagucacn n

21

<210> 254  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (2)..(4)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (8)..(9)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (11)..(14)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (15)..(15)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (16)..(19)  
 <223> 2'-deoxy

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 254  
 uaaacaugau gggguggagn n

21

<210> 255  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(2)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (3)..(3)  
 <223> 2'-O-methyl

```

<220>
<221> misc_feature
<222> (4)..(4)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (5)..(6)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (7)..(7)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (8)..(8)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (9)..(13)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (14)..(14)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (15)..(17)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (18)..(18)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (19)..(19)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (20)..(20)
<223> n stands for thymidine

<220>
<221> misc_feature
<222> (21)..(21)
<223> 3'-3 attached terminal deoxyabasic moiety

<400> 255
cugcaguacc ucuaccugcn n

<210> 256
<211> 21
<212> RNA

```

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3 attached terminal deoxyabasic moiety

<220>

<221> misc\_feature

<222> (1)..(5)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (6)..(6)

<223> 2'-O-methyl

<220>

<221> misc\_feature

<222> (7)..(9)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (10)..(10)

<223> 2'-O-methyl

<220>

<221> misc\_feature

<222> (11)..(11)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (12)..(15)

<223> 2'-O-methyl

<220>

<221> misc\_feature

<222> (16)..(16)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (17)..(18)

<223> 2'-O-methyl

<220>

<221> misc\_feature

<222> (19)..(19)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n stands for thymidine

<220>

<221> misc\_feature

<222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 256  
 ccucuaccug caggacaacn n

21

<210> 257  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (5)..(10)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (12)..(13)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (15)..(15)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature



<222> (16)..(16)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (17)..(18)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 257  
 accgucuccu acugcaccan n

21

<210> 258  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (3)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature

<222> (10)..(11)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (15)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (17)..(19)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 258  
 cgucuccuac ugcaccagan n

21

<210> 259  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature

<222> (2)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (5)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (11)..(12)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (15)..(18)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 259  
 gccgccuau gacacucuan n

<210> 260

<211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (2)..(5)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (6)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (9)..(14)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (15)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (17)..(18)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 260  
 uggagccugg aagaccagcn n

21

<210> 261

<211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (3)..(4)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (5)..(7)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (8)..(13)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (14)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (17)..(19)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 261  
 gugacucaga aggucaggn n

21

<210> 262

<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA sense region

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> 5'-3 attached terminal deoxyabasic moiety

<220>  
<221> misc\_feature  
<222> (1)..(4)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (5)..(5)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (6)..(9)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (10)..(10)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (11)..(12)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (13)..(13)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (14)..(14)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (15)..(15)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (16)..(18)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (19)..(19)  
<223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 262  
 cuccaccca ucauguuuan n

21

<210> 263  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (2)..(2)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (3)..(5)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (7)..(11)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (12)..(12)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (13)..(13)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (14)..(15)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (16)..(16)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (17)..(17)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (18)..(19)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 263  
 gcagguagag guacugcagn n

21

<210> 264  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (5)..(8)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> 2'-O-methyl



<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (11)..(13)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (14)..(14)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (15)..(19)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 264  
 guuguccugc agguagaggn n

21

<210> 265  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (4)..(4)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (7)..(8)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (9)..(9)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (10)..(15)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (16)..(16)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (17)..(18)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-Fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> n stands for thymidine

<400> 265  
 uggugcagua ggagacggun n

21

<210> 266  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(3)  
 <223> 2'-deoxy-2'-Fluoro

```

<220>
<221> misc_feature
<222> (4)..(5)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (6)..(6)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (7)..(7)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (8)..(8)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (9)..(10)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (11)..(11)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (12)..(17)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (18)..(18)
<223> 2'-deoxy-2'-Fluoro

<220>
<221> misc_feature
<222> (19)..(19)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (20)..(20)
<223> Phosphorothioate 3'-Internucleotide Linkage

<220>
<221> misc_feature
<222> (21)..(21)
<223> n stands for thymidine

<400> 266
ucuggugcag uaggagacgn n

<210> 267
<211> 21
<212> RNA
<213> Artificial sequence

```

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (2)..(5)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (7)..(7)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (8)..(9)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (10)..(10)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (11)..(11)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (12)..(15)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (16)..(16)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (17)..(18)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (19)..(19)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (20)..(20)

<223> Phosphorothioate 3'-Internucleotide Linkage

<220>

<221> misc\_feature

<222> (21)..(21)

<223> n stands for thymidine

<400> 267

uagaguguca ugaggcggn n

21

<210> 268

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA antisense region

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 2'-O-methyl

<220>

<221> misc\_feature

<222> (2)..(3)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (4)..(5)

<223> 2'-O-methyl

<220>

<221> misc\_feature

<222> (6)..(11)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (12)..(14)

<223> 2'-O-methyl

<220>

<221> misc\_feature

<222> (15)..(18)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (19)..(19)

<223> 2'-O-methyl

<220>

<221> misc\_feature

<222> (20)..(20)

<223> Phosphorothioate 3'-Internucleotide Linkage

<220>

<221> misc\_feature

<222> (21)..(21)

<223> n stands for thymidine

<400> 268

gcuggucuuc caggcuccan n

21

<210> 269

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA antisense region

<220>

<221> misc\_feature

<222> (1)..(3)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (4)..(6)

<223> 2'-O-methyl

<220>

<221> misc\_feature

<222> (7)..(12)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (13)..(15)

<223> 2'-O-methyl

<220>

<221> misc\_feature

<222> (16)..(17)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (18)..(18)

<223> 2'-O-methyl

<220>

<221> misc\_feature

<222> (19)..(19)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (20)..(20)

<223> Phosphorothioate 3'-Internucleotide Linkage

<220>

<221> misc\_feature

<222> (21)..(21)

<223> n stands for thymidine

<400> 269

ccugagccuu cugagucacn n

21

<210> 270  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (2)..(4)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (5)..(5)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (7)..(7)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (8)..(9)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (10)..(10)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (11)..(14)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (15)..(15)  
<223> 2'-deoxy-2'-Fluoro

<220>  
<221> misc\_feature  
<222> (16)..(19)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (20)..(20)

<223> Phosphorothioate 3'-Internucleotide Linkage

<220>

<221> misc\_feature

<222> (21)..(21)

<223> n stands for thymidine

<400> 270

uaaacaugau gggguggagn n

21

<210> 271

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3 attached terminal deoxyabasic moiety

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n stands for thymidine

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal deoxyabasic moiety

<400> 271

cugcaguacc ucuaccugcn n

21

<210> 272

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3 attached terminal deoxyabasic moiety

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n stands for thymidine

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal deoxyabasic moiety



<400> 272  
ccucuaccug caggacaacn n 21

<210> 273  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA sense region

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> 5'-3 attached terminal deoxyabasic moiety

<220>  
<221> misc\_feature  
<222> (20)..(20)  
<223> n stands for thymidine

<220>  
<221> misc\_feature  
<222> (21)..(21)  
<223> 3'-3 attached terminal deoxyabasic moiety

<400> 273  
accgucuccu acugacacn n 21

<210> 274  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA sense region

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> 5'-3 attached terminal deoxyabasic moiety

<220>  
<221> misc\_feature  
<222> (20)..(20)  
<223> n stands for thymidine

<220>  
<221> misc\_feature  
<222> (21)..(21)  
<223> 3'-3 attached terminal deoxyabasic moiety

<400> 274  
cgucuccuac ugacaccagan n 21

<210> 275  
<211> 21  
<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3 attached terminal deoxyabasic moiety

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n stands for thymidine

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal deoxyabasic moiety

<400> 275

gccgccuau gacacucuan n

21

<210> 276

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3 attached terminal deoxyabasic moiety

<220>

<221> misc\_feature

<222> (20)..(20)

<223> n stands for thymidine

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal deoxyabasic moiety

<400> 276

uggagccugg aagaccagcn n

21

<210> 277

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 277  
 gugacucaga aggcucaggn n 21

<210> 278  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 278  
 cuccacccca ucauguuuan n 21

<210> 279  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
 <221> misc\_feature  
 <222> (21)..(21)

<223> n stands for thymidine

<400> 279

gcagguagag guacugcagn n

21

<210> 280

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA antisense region

<220>

<221> misc\_feature

<222> (20)..(20)

<223> Phosphorothioate 3'-Internucleotide Linkage

<220>

<221> misc\_feature

<222> (21)..(21)

<223> n stands for thymidine

<400> 280

guuguccugc agguagaggn n

21

<210> 281

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA antisense region

<220>

<221> misc\_feature

<222> (20)..(20)

<223> Phosphorothioate 3'-Internucleotide Linkage

<220>

<221> misc\_feature

<222> (21)..(21)

<223> n stands for thymidine

<400> 281

uggugcagua ggagacggun n

21

<210> 282

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA antisense region

<220>

<221> misc\_feature

404614\_1.TXT

<222> (20)..(20)  
<223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
<221> misc\_feature  
<222> (21)..(21)  
<223> n stands for thymidine

<400> 282  
ucuggugcag uaggagacgn n 21

<210> 283  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<220>  
<221> misc\_feature  
<222> (20)..(20)  
<223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
<221> misc\_feature  
<222> (21)..(21)  
<223> n stands for thymidine

<400> 283  
uagaguguca ugaggcggcn n 21

<210> 284  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<220>  
<221> misc\_feature  
<222> (20)..(20)  
<223> Phosphorothioate 3'-Internucleotide Linkage

<220>  
<221> misc\_feature  
<222> (21)..(21)  
<223> n stands for thymidine

<400> 284  
gcuggucuuc caggcuccan n 21

<210> 285  
<211> 21  
<212> RNA  
<213> Artificial Sequence

404614\_1.TXT

```

<220>
<223> Description of Artificial Sequence:  siNA antisense region

<220>
<221> misc_feature
<222> (20)..(20)
<223> Phosphorothioate 3'-Internucleotide Linkage

<220>
<221> misc_feature
<222> (21)..(21)
<223> n stands for thymidine

<400> 285
ccugagccuu cugagucacn n                                     21

<210> 286
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:  siNA antisense region

<220>
<221> misc_feature
<222> (20)..(20)
<223> Phosphorothioate 3'-Internucleotide Linkage

<220>
<221> misc_feature
<222> (21)..(21)
<223> n stands for thymidine

<400> 286
uaaacaugau gggguggagn n                                     21

<210> 287
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:  siNA antisense region

<220>
<221> misc_feature
<222> (1)..(1)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (2)..(2)
<223> 2'-deoxy-2'-fluoro

<220>
<221> misc_feature
<222> (3)..(5)

```

```

<223> 2'-O-methyl
<220>
<221> misc_feature
<222> (6)..(6)
<223> 2'-deoxy-2'-fluoro

<220>
<221> misc_feature
<222> (7)..(11)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (12)..(12)
<223> 2'-deoxy-2'-fluoro

<220>
<221> misc_feature
<222> (13)..(13)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (14)..(15)
<223> 2'-deoxy-2'-fluoro

<220>
<221> misc_feature
<222> (16)..(16)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (17)..(17)
<223> 2'-deoxy-2'-fluoro

<220>
<221> misc_feature
<222> (18)..(19)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (20)..(20)
<223> n stands for thymidine

<220>
<221> misc_feature
<222> (21)..(21)
<223> 3'-3 attached terminal deoxyabasic moiety

```

```

<400> 287
gcagguagag guacugcagn n

```

21

```

<210> 288
<211> 21
<212> RNA
<213> Artificial sequence

```

```

<220>
<223> Description of Artificial Sequence: siNA antisense region

```

```

<220>
<221> misc_feature
<222> (1)..(1)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (2)..(3)
<223> 2'-deoxy-2'-fluoro

<220>
<221> misc_feature
<222> (4)..(4)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (5)..(8)
<223> 2'-deoxy-2'-fluoro

<220>
<221> misc_feature
<222> (9)..(9)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (10)..(10)
<223> 2'-deoxy-2'-fluoro

<220>
<221> misc_feature
<222> (11)..(13)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (14)..(14)
<223> 2'-deoxy-2'-fluoro

<220>
<221> misc_feature
<222> (15)..(19)
<223> 2'-O-methyl

<220>
<221> misc_feature
<222> (20)..(20)
<223> n stands for thymidine

<220>
<221> misc_feature
<222> (21)..(21)
<223> 3'-3 attached terminal deoxyabasic moiety

<400> 288
guuguccugc agguagaggn n

<210> 289
<211> 21

```



<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<220>  
<221> misc\_feature  
<222> (1)..(1)  
<223> 2'-deoxy-2'-fluoro

<220>  
<221> misc\_feature  
<222> (2)..(3)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (4)..(4)  
<223> 2'-deoxy-2'-fluoro

<220>  
<221> misc\_feature  
<222> (5)..(5)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (6)..(6)  
<223> 2'-deoxy-2'-fluoro

<220>  
<221> misc\_feature  
<222> (7)..(8)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (9)..(9)  
<223> 2'-deoxy-2'-fluoro

<220>  
<221> misc\_feature  
<222> (10)..(15)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (16)..(16)  
<223> 2'-deoxy-2'-fluoro

<220>  
<221> misc\_feature  
<222> (17)..(18)  
<223> 2'-O-methyl

<220>  
<221> misc\_feature  
<222> (19)..(19)  
<223> 2'-deoxy-2'-fluoro

<220>

<221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 289  
 uggugcagua ggagacggun n

21

<210> 290  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(3)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (8)..(8)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (9)..(10)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (11)..(11)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (12)..(17)  
 <223> 2'-O-methyl

<220>

<221> misc\_feature  
 <222> (18)..(18)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 290  
 ucuggugcag uaggagacgn n

21

<210> 291  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (2)..(5)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (8)..(9)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> 2'-O-methyl

<220>

<221> misc\_feature  
 <222> (11)..(11)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (12)..(15)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (16)..(16)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (17)..(18)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 291  
 uagaguguca ugaggcggcn n

21

<210> 292  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (2)..(3)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(5)  
 <223> 2'-O-methyl

<220>

<221> misc\_feature  
 <222> (6)..(11)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (12)..(14)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (15)..(18)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 292  
 gcuggucuuc caggcuccan n

21

<210> 293  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<220>  
 <221> misc\_feature  
 <222> (1)..(3)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (4)..(6)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (7)..(12)  
 <223> 2'-deoxy-2'-fluoro

<220>

<221> misc\_feature  
 <222> (13)..(15)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (16)..(17)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (18)..(18)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (19)..(19)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for thymidine

<400> 293  
 ccugagccuu cugagucacn n

21

<210> 294  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (2)..(4)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (5)..(5)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (6)..(6)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (7)..(7)  
 <223> 2'-deoxy-2'-fluoro

<220>

<221> misc\_feature  
 <222> (8)..(9)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (10)..(10)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (11)..(14)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (15)..(15)  
 <223> 2'-deoxy-2'-fluoro

<220>  
 <221> misc\_feature  
 <222> (16)..(19)  
 <223> 2'-O-methyl

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 294  
 uaaacaugau gggguggagn n 21

<210> 295  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 295  
 gcagguagag guacugcagn n 21

<210> 296  
 <211> 21

```

<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<220>
<221> misc_feature
<222> (20)..(20)
<223> n stands for thymidine

<220>
<221> misc_feature
<222> (21)..(21)
<223> 3'-3 attached terminal deoxyabasic moeity

<400> 296
guuguccugc agguagaggn n 21

<210> 297
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<220>
<221> misc_feature
<222> (20)..(20)
<223> n stands for thymidine

<220>
<221> misc_feature
<222> (21)..(21)
<223> 3'-3 attached terminal deoxyabasic moeity

<400> 297
uggugcagua ggagacggun n 21

<210> 298
<211> 21
<212> RNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence: siNA antisense region

<220>
<221> misc_feature
<222> (20)..(20)
<223> n stands for thymidine

<220>
<221> misc_feature
<222> (21)..(21)
<223> 3'-3 attached terminal deoxyabasic moeity

```



<400> 298  
ucuggugcag uaggagacgn n 21

<210> 299  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<220>  
<221> misc\_feature  
<222> (20)..(20)  
<223> n stands for thymidine

<220>  
<221> misc\_feature  
<222> (21)..(21)  
<223> 3'-3 attached terminal deoxyabasic moiety

<400> 299  
uagaguguca ugaggcggn n 21

<210> 300  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<220>  
<221> misc\_feature  
<222> (20)..(20)  
<223> n stands for thymidine

<220>  
<221> misc\_feature  
<222> (21)..(21)  
<223> 3'-3 attached terminal deoxyabasic moiety

<400> 300  
gcuggucuuc caggcuccan n 21

<210> 301  
<211> 21  
<212> RNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: siNA antisense region

<220>  
<221> misc\_feature  
<222> (20)..(20)  
<223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 301  
 ccugagccuu cugagucacn n 21

<210> 302  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA antisense region

<220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> n stands for thymidine

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety

<400> 302  
 uaaacaugau gggguggagn n 21

<210> 303  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>  
 <221> misc\_feature  
 <222> (1)..(1)  
 <223> 5'-3 attached terminal deoxyabasic moiety inverted abasic,  
 inverted nucleotide or other terminal cap that is optionally present

<220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety inverted abasic,  
 inverted nucleotide or other terminal cap that is optionally present

<220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for any nucleotide

<400> 303  
 nnnnnnnnnn nnnnnnnnnn n 21

<210> 304  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA antisense region  
 <220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage (optionally present)  
 <220>  
 <221> misc\_feature  
 <222> (20)..(21)  
 <223> n stands for any nucleotide  
 <220>  
 <221> misc\_feature  
 <222> (21)..(21)  
 <223> 3'-3 attached terminal glyceryl moiety or inverted deoxyabasic (optionally present)  
  
 <400> 304  
 nnnnnnnnnnnn nnnnnnnnnnnn n

21

<210> 305  
 <211> 21  
 <212> RNA  
 <213> Artificial Sequence  
  
 <220>  
 <223> Description of Artificial Sequence: siNA sense region  
 <220>  
 <221> misc\_feature  
 <222> (1)..(19)  
 <223> n stands for any nucleotide wherein any pyrimidine nucleotide present is 2'-Fluoro and all purine nucleotide is 2'-o-methyl  
 <220>  
 <221> misc\_feature  
 <222> (20)..(20)  
 <223> Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage (optionally present)

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (20)..(21)

&lt;223&gt; n stands for any nucleotide

&lt;400&gt; 305

nnnnnnnnnn nnnnnnnnnn n

21

&lt;210&gt; 306

&lt;211&gt; 21

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: siNA antisense region

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(19)

&lt;223&gt; n stands for any nucleotide wherein any pyrimidine nucleotide present is 2'-Fluoro and all purine nucleotides are 2'-o-methyl

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (20)..(20)

&lt;223&gt; Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage (optionally present)

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (20)..(21)

&lt;223&gt; n stands for any nucleotide

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (21)..(21)

&lt;223&gt; 3'-3 attached terminal glyceryl moiety or inverted deoxyabasic (optionally present)

&lt;400&gt; 306

nnnnnnnnnn nnnnnnnnnn n

21

&lt;210&gt; 307

&lt;211&gt; 21

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(19)

<223> n stands for any nucleotide wherein any pyrimidine nucleotide present is 2'-O-methyl or 2'-Fluoro

<220>

<221> misc\_feature

<222> (20)..(21)

<223> n stands for any nucleotide

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present

<400> 307

nnnnnnnnnnn nnnnnnnnnnn n

21

<210> 308

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA antisense region

<220>

<221> misc\_feature

<222> (1)..(19)

<223> n stands for any nucleotide wherein any pyrimidine nucleotide present is 2'-Fluoro

<220>

<221> misc\_feature

<222> (20)..(20)

<223> Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage (optionally present)

<220>

<221> misc\_feature

<222> (20)..(21)

<223> n stands for any nucleotide

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal glyceryl moiety or inverted deoxyabasic (optionally present)

<400> 308

nnnnnnnnnn nnnnnnnnnn n

21

<210> 309

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(19)

<223> n stands for any nucleotide wherein any pyrimidine nucleotide present is 2'-Fluoro and any purine nucleotide present is 2'-Deoxy

<220>

<221> misc\_feature

<222> (20)..(21)

<223> n stands for any nucleotide

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present

<400> 309

nnnnnnnnnn nnnnnnnnnn n

21

<210> 310

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(19)

&lt;223&gt; n stands for any nucleotide wherein any pyrimidine nucleotide present is 2'-Fluoro

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (20)..(21)

&lt;223&gt; n stands for any nucleotide

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(1)

&lt;223&gt; 5'-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (21)..(21)

&lt;223&gt; 3'-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present

&lt;400&gt; 310

nnnnnnnnnn nnnnnnnnnn n

21

&lt;210&gt; 311

&lt;211&gt; 21

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: siNA antisense region

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(19)

&lt;223&gt; n stands for any nucleotide wherein any pyrimidine nucleotide present is 2'-Fluoro and any purine nucleotide present is 2'-deoxy

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (20)..(21)

&lt;223&gt; n stands for any nucleotide

&lt;220&gt;

&lt;221&gt; misc\_feature

<222> (20)..(20)

<223> Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage (optionally present)

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal glyceryl moiety or inverted deoxyabasic (optionally present)

<400> 311

nnnnnnnnnn nnnnnnnnnn n

21

<210> 312

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal deoxyabasic moiety, inverted abasic, inverted nucleotide or other terminal cap that is optionally present

<220>

<221> misc\_feature

<222> (20)..(21)

<223> n stands for thymidine

<400> 312

ggcugcuggc augggugcun n

21

<210> 313

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA antisense region

<220>

<221> misc\_feature

<222> (20)..(20)

<223> Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage (optionally present)



<220>

<221> misc\_feature

<222> (20)..(21)

<223> n stands for thymidine

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal glyceryl moiety or inverted deoxyabasic (optionally present)

<400> 313

agcaccgaug ccagcagccn n

21

<210> 314

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(2)

<223> 2'-O-Methyl

<220>

<221> misc\_feature

<222> (5)..(5)

<223> 2'-O-Methyl

<220>

<221> misc\_feature

<222> (8)..(9)

<223> 2'-O-Methyl

<220>

<221> misc\_feature

<222> (11)..(11)

<223> 2'-O-Methyl

<220>

<221> misc\_feature

<222> (13)..(15)  
<223> 2'-O-Methyl  
<220>  
<221> misc\_feature  
<222> (17)..(17)  
<223> 2'-O-Methyl  
<220>  
<221> misc\_feature  
<222> (3)..(4)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (6)..(7)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (10)..(10)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (12)..(12)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (16)..(16)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (18)..(19)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature

<222> (20)..(20)

<223> Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage (optionally present)

<220>

<221> misc\_feature

<222> (20)..(21)

<223> n stands for thymidine

<400> 314

ggcugcuggc auggggugcun n

21

<210> 315

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA antisense region

<220>

<221> misc\_feature

<222> (1)..(2)

<223> 2'-O-Methyl

<220>

<221> misc\_feature

<222> (4)..(4)

<223> 2'-O-Methyl

<220>

<221> misc\_feature

<222> (8)..(8)

<223> 2'-O-Methyl

<220>

<221> misc\_feature

<222> (10)..(10)

<223> 2'-O-Methyl

<220>

<221> misc\_feature

<222> (13)..(14)

<223> 2'-O-Methyl  
<220>  
<221> misc\_feature  
<222> (16)..(17)  
<223> 2'-O-Methyl  
<220>  
<221> misc\_feature  
<222> (3)..(3)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (5)..(7)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (9)..(9)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (11)..(12)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (15)..(15)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (18)..(19)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature

<222> (20)..(20)

<223> Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage (optionally present)

<220>

<221> misc\_feature

<222> (20)..(21)

<223> n stands for thymidine

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal glyceryl moiety or inverted deoxyabasic (optionally present)

<400> 315

agcacccaug ccagcagccn n

21

<210> 316

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (3)..(4)

<223> 2'-O-Methyl or 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (6)..(7)

<223> 2'-O-Methyl or 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (10)..(10)

<223> 2'-O-Methyl or 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (12)..(12)

<223> 2'-O-Methyl or 2'-deoxy-2'-Fluoro

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (16)..(16)

&lt;223&gt; 2'-O-Methyl or 2'-deoxy-2'-Fluoro

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (18)..(19)

&lt;223&gt; 2'-O-Methyl or 2'-deoxy-2'-Fluoro

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(1)

<223> 5'-3' attached terminal deoxyabasic moiety, inverted abasic,  
inverted nucleotide or other terminal cap that is optionally present

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (21)..(21)

<223> 3'-3' attached terminal deoxyabasic moiety, inverted abasic,  
inverted nucleotide or other terminal cap that is optionally present

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (20)..(21)

&lt;223&gt; n stands for thymidine

&lt;400&gt; 316

ggcugcuggc augggugcun n

21

&lt;210&gt; 317

&lt;211&gt; 21

&lt;212&gt; RNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

&lt;223&gt; Description of Artificial Sequence: siNA antisense region

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (3)..(3)

&lt;223&gt; 2'-deoxy-2'-Fluoro

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (5)..(7)

&lt;223&gt; 2'-deoxy-2'-Fluoro

```

<220>
<221> misc_feature
<222> (9)..(9)
<223> 2'-deoxy-2'-Fluoro
<220>
<221> misc_feature
<222> (11)..(12)
<223> 2'-deoxy-2'-Fluoro
<220>
<221> misc_feature
<222> (15)..(15)
<223> 2'-deoxy-2'-Fluoro
<220>
<221> misc_feature
<222> (18)..(19)
<223> 2'-deoxy-2'-Fluoro
<220>
<221> misc_feature
<222> (20)..(21)
<223> n stands for thymidine
<220>
<221> misc_feature
<222> (20)..(20)
<223> Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage (optionally
present)
<220>
<221> misc_feature
<222> (21)..(21)
<223> 3'-3 attached terminal glyceryl moiety or inverted deoxybasic (optionally
present)
<400> 317
agcaccgaug ccagcagccn n
21

<210> 318
<211> 21
<212> RNA

```

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (1)..(2)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (5)..(5)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (8)..(9)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (11)..(11)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (13)..(15)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (17)..(17)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (3)..(4)

<223> 2'-deoxy-2'-Fluoro

<220>



```

<221> misc_feature
<222> (6)..(7)
<223> 2'-deoxy-2'-Fluoro
<220>
<221> misc_feature
<222> (10)..(10)
<223> 2'-deoxy-2'-Fluoro
<220>
<221> misc_feature
<222> (12)..(12)
<223> 2'-deoxy-2'-Fluoro
<220>
<221> misc_feature
<222> (16)..(16)
<223> 2'-deoxy-2'-Fluoro
<220>
<221> misc_feature
<222> (18)..(19)
<223> 2'-deoxy-2'-Fluoro
<220>
<221> misc_feature
<222> (1)..(1)
<223> 5'-3 attached terminal deoxyabasic moiety, inverted abasic,
inverted nucleotide or other terminal cap that is optionally present
<220>
<221> misc_feature
<222> (21)..(21)
<223> 3'-3 attached terminal deoxyabasic moiety, inverted abasic,
inverted nucleotide or other terminal cap that is optionally present
<220>
<221> misc_feature
<222> (20)..(21)
<223> n stands for thymidine
<400> 318
ggcugcuggc augggugcun n
<210> 319

```

<211> 21  
 <212> RNA  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: siNA sense region

<220>

<221> misc\_feature

<222> (3)..(4)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (6)..(7)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (10)..(10)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (12)..(12)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (16)..(16)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (18)..(19)

<223> 2'-deoxy-2'-Fluoro

<220>

<221> misc\_feature

<222> (1)..(1)

<223> 5'-3 attached terminal deoxyabasic moiety, inverted abasic,  
 inverted nucleotide or other terminal cap that is optionally present

<220>

<221> misc\_feature

<222> (21)..(21)  
 <223> 3'-3 attached terminal deoxyabasic moiety, inverted abasic,  
 inverted nucleotide or other terminal cap that is optionally present

<220>

<221> misc\_feature

<222> (20)..(21)

<223> n stands for thymidine

<400> 319

ggcugcuggc augggugcun n

21

<210> 320

<211> 21

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: siNA antisense region

<220>

<221> misc\_feature

<222> (1)..(2)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (4)..(4)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (8)..(8)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (10)..(10)

<223> 2'-deoxy

<220>

<221> misc\_feature

<222> (13)..(14)

<223> 2'-deoxy

<220>  
<221> misc\_feature  
<222> (16)..(17)  
<223> 2'-deoxy  
<220>  
<221> misc\_feature  
<222> (3)..(3)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (5)..(7)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (9)..(9)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (11)..(12)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (15)..(15)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (18)..(19)  
<223> 2'-deoxy-2'-Fluoro  
<220>  
<221> misc\_feature  
<222> (20)..(21)

<223> n stands for thymidine

<220>

<221> misc\_feature

<222> (20)..(20)

<223> Phosphorothioate or Phosphorodithioate 3'-Internucleotide Linkage (optionally present)

<220>

<221> misc\_feature

<222> (21)..(21)

<223> 3'-3 attached terminal glyceryl moiety or inverted deoxyabasic (optionally present)

<400> 320

agcacccaug ccagcagccn n

21

<210> 321

<211> 14

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Target Sequence/duplex forming oligonucleotide

<400> 321

auauaucuau uucg

14

<210> 322

<211> 14

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Complementary Sequence/duplex forming oligonucleotide

<400> 322

cgaaaauagau auau

14

<210> 323

<211> 23

<212> RNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Self Complementary duplex construct

<400> 323

cgaaaauaga uauaucuauu ucg

23

<210> 324

<211> 24

<212> RNA

<213> Artificial Sequence

404614\_1.TXT

<220>  
<223> Description of Artificial Sequence: Duplex forming oligonucleotide

<220>

<221> misc\_feature

<222> (23)..(24)

<223> n stands for thymidine

<400> 324

cgaaauagau auaucuaauuu cgnn

24